Met Office

CHEMET Forecast

Dewsbury Fire CHEMET 746_001

Issued by Met Office Environment Monitoring and Response Centre (EMARC)

Tel: 01392 447947 Email: emarc@metoffice.gov.uk Link to Hazard Manager

Plume forecast below 100m - map will be sent separately

Forecast Issued on Wednesday, 06 July 2022 at 18:53 local

To: Duty Officer	**Organisation:** West Yorkshire FRS
Tel: 0113 823 7007	**Email:** fire.control@westyorksfire.gov.uk

Forecast for: Dewsbury **Nature of Incident:** Fire

Incident ongoing since: 06/07/2022 19:00

Forecast valid between: 19:00 06/07/2022 *and* 01:00 07/07/2022

Surface wind direction/speed: *Blowing from W towards E at 15 mph.*

Weather conditions and effect on plume: A cloudy and breezy evening, with the odd spot of rain. The plume will disperse efficiently towards the east to southeast, with little lateral spread while mixing well with the environment.

If incident continues beyond the validity period, the following weather conditions will affect the plume

Plume dispersing more towards the southeast and perhaps becoming confined to lower levels at the end of the night.

Please call 01392 447947 to request further updates if this incident is likely to continue or to discuss further.

Additional Information for Science and Health Agencies

Precipitation (type and intensity): Odd spot of rain

Total Cloud amount: 7 oktas

Height of lowest significant cloud: 1000-1500 feet

Air temperature: 16 °C

Relative humidity: 80 %

Depth of mixing layer: 800 BECMG 400 metres

Wind at top of mixing layer: Blowing from 280 to 100 degrees at 40 km/h

Air stability: D *(A=unstable, G=stable)*

Latitude and Longitude of source: 53.6952 N, 1.6309 W

Sensible heat flux: 26 W/m^2

© Crown Copyright 2022. All Rights Reserved.